CATHODE RAY TUNING INDICATOR

UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.15 AMPERE
AC OR DC

GLASS BULB

SMALL \& PIN BASE

THE TUNG-SOL 6AB5/6N5 CONSISTS OF A CIRCULAR FLUORESCENT SCREEN WITH AN INDICATING SHADOW ANGLE, WHICH IS CONTROLLED BY AN INTERNALLY CONNECTED AMPLIFIER. WHEN THE 6AB5/6N5 IS USED AS A TUNING INDICATOR, AVC VOLTAGE IS APPLIED TO THE TRIODE GRID. IT IS RECOMMENDED FOR APPLICATIONS WHICH REQUIRE A HEATER OF LOW CURRENT DRAIN.

RATINGS

<p>| | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>MAXIMUM PLATE SUPPLY VOLTAGE</td>
<td>180</td>
<td>VOLTS</td>
</tr>
<tr>
<td>MAXIMUM TARGET VOLTAGE</td>
<td>180</td>
<td>VOLTS</td>
</tr>
<tr>
<td>MINIMUM TARGET VOLTAGE</td>
<td>100</td>
<td>VOLTS</td>
</tr>
</tbody>
</table>

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

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<table>
<thead>
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<tbody>
<tr>
<td>PLATE AND TARGET SUPPLY VOLTAGE</td>
<td>135</td>
<td>VOLTS</td>
</tr>
<tr>
<td>SERIES TRIODE PLATE RESISTOR</td>
<td>0.25</td>
<td>MEGOHM</td>
</tr>
<tr>
<td>TRIODE GRID VOLTAGE (0° SHADOW ANGLE)</td>
<td>-10</td>
<td>VOLTS</td>
</tr>
<tr>
<td>TRIODE GRID VOLTAGE (90° SHADOW ANGLE)</td>
<td>0</td>
<td>VOLTS</td>
</tr>
<tr>
<td>TRIODE PLATE CURRENT (TRIODE GRID V.=0)</td>
<td>0.5 A</td>
<td>MA.</td>
</tr>
<tr>
<td>TARGET CURRENT (TRIODE GRID V.=0)</td>
<td>2.0 A</td>
<td>MA.</td>
</tr>
</tbody>
</table>

A SUBJECT TO WIDE VARIATION

FOR "INTERPRETATION OF RATINGS", REFER TO FRONT OF BOOK.

NOTE: THIS DOUBLE-BRANDED TUBE, 6AB5/6N5, REPLACES EITHER THE 6AB5 OR THE 6N5.

CONTINUED NEXT PAGE
6AB5/6N5

$E_f = 6.3\, \text{V}$.

$E_{bb} = 135\, \text{V}$.

$E_{target} = 135\, \text{V}$.

Series Plate

Resistor = 0.25 MEG.

**Graph:**

- **X-axis:** Grid Volts ($E_c$)
- **Y-axis:** Shadow Angle in Degrees
- **Legend:**
  - Target Current
  - Plate Current
- **Plot:**
  - Shadow Angle vs. Grid Volts
  - Target Current vs. Grid Volts
  - Plate Current vs. Grid Volts

- **Axes:**
  - Shadow Angle: 0 to 75 degrees
  - Plate Current: 0 to 500 microamperes
  - Target Current in Milliamperes: 0 to 3.0 milliamperes
  - Grid Volts ($E_c$): -10 to 0